What is claimed is:

- 1. A fluororesin-coated quartz glass jig characterized by that the surface thereof is wholly covered with a pinhole-free fluororesin coating.
- A fluororesin-coated quartz glass jig as claimed in Claim 1, wherein the 2. tetrafluoroethylene resin. selected from least one resin fluororesin at tetrafluoroethylene-perfluoroalkyl vinyl ether resin, perfluoroethylene-propylene resin, chlorotrifluoroethylene resin, tetrafluoroethylene resin. ethyleneethylene-chlorotrifluoroethylene resin, vinylidene difluoride resin, vinyl fluoride resin, and tetrafluoroethylene-perfluorodioxol resin.
- 3. A fluororesin-coated quartz glass jig as claimed in Claim 1, wherein the thickness of the fluororesin coating is 50 μm or more.
- 4. A method for producing a fluororesin-coated quartz glass jig, comprising rounding all the edges of a quartz glass jig into curved portions each having a curvature (r) of 0.5 mm or larger, and forming a fluororesin coating on the entire quartz glass jig by treating the resulting jig with a fluororesin coating agent.
- 5. A method for producing a fluororesin-coated quartz glass jig, comprising applying a frost treatment to a quartz glass jig, and forming a fluororesin coating on the

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entire quartz glass jig by treating the resulting jig with a fluororesin coating agent.

- 6. A method for producing a fluororesin-coated quartz glass jig as claimed in Claim 5, wherein the frost treatment is a surface treatment using a chemical agent.
- 7. A method for producing a fluororesin-coated quartz glass jig as claimed in Claim 5 or 6, wherein all the edges of the quartz glass jig are subjected to rounding to a curvature (r) value of 0.5 mm or larger before the frost treatment.
- 8. An apparatus comprising a jig of quartz glass having a surface, said surface being wholly covered with a pinhole-free fluororesin coating.
- 9. An apparatus as claimed in Claim 8, wherein the fluororesin coating is of at least one resin selected from the group consisting of tetrafluoroethylene resin, tetrafluoroethylene-perfluoroalkyl vinyl ether resin, perfluoroethylene-propylene resin, ethylene-tetrafluoroethylene resin, chlorotrifluoroethylene resin, ethylene-chlorotrifluoroethylene resin, vinylidene difluoride resin, vinyl fluoride resin, and tetrafluoroethylene-perfluorodioxol resin.
- 10. An apparatus as claimed in Claim 8, wherein the thickness of the fluororesin coating is 50 μm or more.

11. A method for producing a fluororesin-coated quartz glass jig, said method comprising:

rounding all edges of a quartz glass jig into curved portions each having a radius of curvature of 0.5 mm or larger, and

forming a fluororesin coating on the entire quartz glass jig by treating the resulting jig with a fluororesin coating agent.

12. A method for producing a fluororesin-coated quartz glass jig, said method comprising:

applying a frost treatment to a quartz glass jig, and

forming a fluororesin coating on the entire quartz glass jig by treating the resulting jig with a fluororesin coating agent.

- 13. A method for producing a fluororesin-coated quartz glass jig as claimed in Claim 12, wherein the frost treatment is a surface treatment using a chemical agent.
- 14. A method for producing a fluororesin-coated quartz glass jig as claimed in Claim 12, wherein all the edges of the quartz glass jig are subjected to rounding to a radius of curvature of 0.5 mm or larger before the frost treatment.

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15. A method for producing a fluororesin-coated quartz glass jig as claimed in Claim 13, wherein all the edges of the quartz glass jig are subjected to rounding to a radius of curvature of 0.5 mm or larger before the frost treatment.